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Rick

background in measure theory can skip  
Sections 1.4, 1.5, and 1.7, which were  
previously part of the appendix. 1.1

Probability Spaces Here and throughout the  
book, terms being de?ned are set in boldface.

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We begin with the most basic quantity. A probability space is a triple  $(\Omega, \mathcal{F}, P)$  where  $\Omega$  is a set of "outcomes,"  $\mathcal{F}$  is a set of "events ...

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Example 1.1.1. Discrete probability spaces.

Let  $\Omega$  = a countable set, i.e., finite or countably infinite. Let  $\mathcal{F}$  = the set of all subsets of  $\Omega$ . Let  $P(A) = \sum_{\omega \in A} p(\omega)$  where  $p(\omega) \geq 0$  and  $\sum_{\omega \in \Omega} p(\omega) = 1$ .

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This book is an introduction to probability theory covering laws of large numbers, central limit theorems, random walks,

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martingales, Markov chains, ergodic theorems, and Brownian motion.

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Three examples that will be important in what follows are: Example 1.2.3 (Uniform distribution on  $(0,1)$ )  $f(x) = 1$  for  $x \in (0,1)$  and 0 otherwise. Distribution function:  $F(x) = x$  for  $0 \leq x \leq 1$  and 1 for  $x > 1$ . Example 1.2.4 (Exponential distribution with rate  $\lambda$ )  $f(x) = \lambda e^{-\lambda x}$  for  $x \geq 0$  and 0 otherwise.



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Its philosophy is that the best way to learn probability is to see it in action, so there are 200 examples and 450 problems. The fourth edition begins with a short chapter on measure theory to...

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Let  $X_1, X_2, X_3, X_4$  be independent and take values 1 and  $\frac{1}{2}$  with probability  $\frac{1}{2}$  each.

Let  $Y_1 = X_1 X_2, Y_2 = X_2 X_3, Y_3 = X_3 X_4,$  and  $Y_4 = X_4 X_1$ . It is easy to see that  $P(Y_i$

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$= 1) = P(Y_i = 1) = 1/2$ . Since  $Y_1 Y_2 Y_3 Y_4 = 1$ ,  $P(Y_1 = Y_2 = Y_3 = 1, Y_4 = 1) = 0$  and the four random variables are not independent.

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The title of the book indicates that as we develop the theory, we will focus our attention on examples. Hoping that the book would be a useful reference for people who apply probability in their work, we have tried to emphasize the results that are important for applications, and illustrated their use with roughly 200 examples.

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It is a comprehensive treatment concentrating on the results that are the most useful for applications. Its philosophy is that the best way to learn probability is to see it in action, so there are 200 examples and 450 problems. The fourth edition begins with a short chapter on measure theory to orient readers new to the subject.

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